ABSTRACT OF THE DISCLOSURE:

The present invention relates to a method and device for monitoring a data transmission having a plurality of physical links between two network nodes, corresponding ones of the physical links being combined to form a

5   virtual link, with the data transmitted between the two network nodes being distributed among individual physical links and with data packets containing affiliation information about the virtual link to which the corresponding ones of the physical links belong being transmitted on the physical links between the two network nodes during the data transmission. The method and device

10   include connecting a monitoring device to tap the plurality of physical links between the two nodes, receiving data packets transmitted on the plurality of physical links, extracting the affiliation information of the data packets, and analyzing the extracted affiliation information in order to determine the corresponding ones of the physical links that form the virtual link, all without

15   the monitoring device having to re-transmit the data packets.